



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4491-041
Job Sheet 187083



Part No: D4491-041

Job Qty: 1 pcs

Part Name: Door Hinge Assembly, Left Upper



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/27/18

Job Tracking No:

Due Date: 1/31/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A SHEET 1 IPP REV:A NEW ISSUE 11-12-05 JLM VERIFIED BY:DD IPP REV:B 12.01.31 REV.A DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	1/31/19	1/31/19	0.00	0.00	Start Up Stores/Pkg-1		
100	Packaging 1 - Pick Kit	1 pcs	1/31/19	1/31/19	0.00	0.00	Packaging1-5		
101	Packaging 1-1 - Pick Kit - B4B	1 pcs	1/31/19	1/31/19	0.00	0.00	Packaging 1 - 1 - B4B		
							Packaging 1 - 2 - B4B		
							Packaging 1 - 3 - B4B		
							Packaging 1 - 4 - B4B		
							Packaging 1 - 5 - B4B		
							Packaging 1 - 6 - B4B		
							Packaging 1 - 7 - B4B		
							Packaging 1 - 8 - B4B	-	DAS
							Packaging 1 - 9 - B4B		36
							Packaging 1 - 10 - B4B		9-89
							Packaging 1 - 11 - B4B		
							Packaging 1 - 12 - B4B		
							Packaging 1 - 13 - B4B		
							Packaging 1 - 14 - B4B		
							Packaging 1 - 15 - B4B		
							Packaging 1 - 16 - B4B		
							Packaging 1 - 17 - B4B		
							Packaging 1 - 18 - B4B		
							Packaging 1 - 19 - B4B		
							Packaging 1 - 20 - B4B		
							Packaging 1 - 21 - B4B		
							Packaging 1 - 22 - B4B		
							Packaging 1 - 23 - B4B		
							Packaging 1 - 24 - B4B		
							Packaging 1 - 25 - B4B		
							Packaging 1 - 26 - B4B		
							Packaging 1 - 27 - B4B		
							Packaging 1 - 28 - B4B		

				Packaging 1 - 29 - B4B	
				Packaging 1 - 30 - B4B	
				Packaging 1 - 31 - B4B	
				Packaging 1 - 32 - B4B	
				Packaging 1 - 33 - B4B	
				Packaging 1 - 34 - B4B	
				Packaging 1 - 35 - B4B	
				Packaging 1 - 36 - B4B	
110	Small Fab - 2 - B4B	1 pcs	1/31/19	0.00 0.00	Small Fab - 1 - B4B
					Small Fab - 2 - B4B
					Small Fab - 3 - B4B
					Small Fab - 4 - B4B
					Small Fab - 5 - B4B
					Small Fab - 6 - B4B
					Small Fab - 7 - B4B
120	QC 5	1 pcs	1/31/19	0.00 0.00	QC 5 - 10
					QC 5 - 12
					QC 5 - 17
					QC 5 - 18
					QC 5 - 19
					QC 5 - 22
					QC 5 - 24
					QC 5 - 3
					QC 5 - 38
					QC 5 - 42
					QC 5 - 43
					QC 5 - 49
					QC 5 - 51
					QC 5 - 58
					QC 5 - 68
					QC 5 - 9
					QC 5 - 50
					QC 5 - 30
130	Packaging 3-1 - Stock - B4B	1 pcs	1/31/19	0.00 0.00	Packaging3-2
					Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B
					Packaging 3 - 18 - B4B
					Packaging 3 - 19 - B4B
					Packaging 3 - 20 - B4B
					Packaging 3 - 21 - B4B
					Packaging 3 - 22 - B4B
					Packaging 3 - 23 - B4B
					Packaging 3 - 24 - B4B
					Packaging 3 - 25 - B4B

DAS
36
9-89

DAS
38
9-89

51098 JAN 17 2019

					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
140	QC 21 - SA	1 pcs	1/31/19	0.00 0.00	QC 21 - SA - 21	DAS 21 JAN 17 2019
					QC 21 - SA - 70	
Part Op 110 - ASSEMBLE AS PER DWG Descriptions: 120 - QC5- Inspect part completeness to step on W/O 130 - Identify as per dwg & Stock Location: _____ 140 - QC21- Final Inspection - Work Order Release						
Job BOM						
Part / Item	Component Name	Quantity	Operation	Container		
D4491-1	Hinge, Left Upper	1 pcs (1 ea)	90-Start up Operation			
D4492-1-ZV	Bushing	1 Ea (1 ea)	90-Start up Operation			
D4493-1-ZV	Hinge Fork	1 Ea (1 ea)	90-Start up Operation			
D4493-2-ZV	Hinge Fork	1 Ea (1 ea)	90-Start up Operation			
D4520-1	Hinge Shim	1 pcs (1 ea)	90-Start up Operation			
MS21043-08	Nut, Self-Locking	2 Ea (2 ea)	90-Start up Operation			
MS27039C0816	Screw	2 Ea (2 ea)	90-Start up Operation			
NAS1149CN832R	Washer	4 Ea (4 ea)	90-Start up Operation			
POF-40022	Push-On Feet	1 pcs (1 ea)	90-Start up Operation			
Job Allocations						
Operation	Component Part	Required	Inventory	Allocated		
90-Start up Operation	D4491-1	1	1	0		
	D4492-1	1	4	0		
	D4493-1	1	12	0		
	D4493-2	1	10	0		
	D4520-1	1	3	0		
	MS21043-08	2	86	0		
	MS27039C0816	2	27	0		
	NAS1149CN832R	4	598	0		
	POF-40022	1	190	0		
Part Specifications						
Specifications could not be found.						



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

007435

D4491-041
Job Sheet 187083



Part No: D4491-041

Job Qty: 1 ea

Part Name: Door Hinge Assembly, Left Upper



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/27/18

Job Tracking No:

Due Date: 1/31/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A SHEET 1 IPP REV:A NEW ISSUE 11-12-05 JLM VERIFIED BY:DD IPP REV:B 12.01.31 REV:A
DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	1/31/19	1/31/19	0.00	0.00	Start Up Stores/Pkg-1		JAN 10 2019
100	Packaging	1 pcs	1/31/19	1/31/19	0.00	0.00	Packaging1-5		
110	Small Fab	1 pcs	1/31/19	1/31/19	0.00	0.00	Small Fab-7		
120	QC	1 pcs	1/31/19	1/31/19	0.00	0.00	QC5		
130	Packaging	1 pcs	1/31/19	1/31/19	0.00	0.00	Packaging3-2		
140	QC21-SA	1 Ea	1/31/19	1/31/19	0.00	0.00	QC21		

Part Op
Descriptions: 110 - ASSEMBLE AS PER DWG

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D4491-1	Hinge, Left Upper	1 Ea (1 ea)	90-Start up Operation	F7932
D4492-1	Bushing	1 Ea (1 ea)	90-Start up Operation	E95290
D4493-1	Hinge Fork	1 Ea (1 ea)	90-Start up Operation	K89614
D4493-2	Hinge Fork	1 Ea (1 ea)	90-Start up Operation	E89615
D4520-1	Hinge Shim	1 Ea (1 ea)	90-Start up Operation	F113960
MS21043-08	Nut, Self-Locking	2 Ea (2 ea)	90-Start up Operation	F1130505
MS27039C0816	Screw	2 Ea (2 ea)	90-Start up Operation	F122815
NAS1149CN832R	Washer	4 Ea (4 ea)	90-Start up Operation	5045862
POF-40022	Push-On Feet	1 pcs (1 ea)	90-Start up Operation	F120209

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D4491-1	1	2	0
	D4492-1	1	6	0
	D4493-1	1	14	0
	D4493-2	1	12	0
	D4520-1	1	4	0
	MS21043-08	2	90	0
	MS27039C0816	2	32	0
	NAS1149CN832R	4	733	0
	POF-40022	1	188	0

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By _____ Job No: 187083 Part: D4491 - 041 Serial No/Batch: S143890 Instructions: Various STC's Exp Date: Inspector: Revision: Date: 01/10/19	
				 Container No: S143890 DART AEROSPACE 1270 Aberdeen Street Hawthorn, VIC 3122 CANADA TEL: 1 813 632-5200 Email: sales@dartaero.com www.dartaerospace.com				QC / QA Coordinator Approval	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Part Specifications
Specifications could not be found.

Plex 11/27/18 12:57 PM Dart.lajeunesse.marie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																						
Large Fab ☐	Composite ☐	Supplier ☐																																																																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																																		
Description Work Order Deviation				Disposition				Completed By																																																																	
Root Cause				FAULT CATEGORY																																																																					
<table style="width:100%; border: none;"> <tr><td>Environment ☐</td><td>No Re-verification ☐</td></tr> <tr><td>Design ☐</td><td>Operator ☐</td></tr> <tr><td>Doc/Data ☐</td><td>Offset/Setup ☐</td></tr> <tr><td>Equip/Tooling ☐</td><td>Supplier ☐</td></tr> <tr><td>Handling/Pre ☐</td><td>Training ☐</td></tr> <tr><td>Material ☐</td><td>Use for Testing ☐</td></tr> <tr><td>Internal Transport ☐</td><td>Poor Information ☐</td></tr> <tr><td>Tribal Knowledge ☐</td><td>Rushing ☐</td></tr> <tr><td>LOA ☐</td><td>Product Improvement ☐</td></tr> <tr><td>Substation ☐</td><td>Process Improvement ☐</td></tr> <tr><td>Past Expiry Date ☐</td><td>Manufacturing Process ☐</td></tr> <tr><td>Misidentified ☐</td><td>Past Due ☐</td></tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	<table style="width:100%; border: none;"> <tr><td>Pressure/Forced ☐</td></tr> <tr><td>Bending ☐</td></tr> <tr><td>Centre Not Concentric ☐</td></tr> <tr><td>Cracks ☐</td></tr> <tr><td>Crimp/Kink/Ripple/Wave ☐</td></tr> <tr><td>Cuffs ☐</td></tr> <tr><td>Crushing ☐</td></tr> <tr><td>Heat Treat ☐</td></tr> <tr><td>Wave/Twist in Tube ☐</td></tr> <tr><td>Marks/Chatter ☐</td></tr> </table>		Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	<table style="width:100%; border: none;"> <tr><td>Temperature/Cure ☐</td></tr> <tr><td>Set-up ☐</td></tr> <tr><td>BOM/Route ☐</td></tr> <tr><td>Broken/Damage/Defect ☐</td></tr> <tr><td>Inspection Incomplete/Unqualified ☐</td></tr> <tr><td>Contamination ☐</td></tr> <tr><td>Countersink ☐</td></tr> <tr><td>Cut Too Short ☐</td></tr> <tr><td>Instructions Incomplete/Unclear ☐</td></tr> <tr><td>Drill Holes ☐</td></tr> </table>		Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	<table style="width:100%; border: none;"> <tr><td>Power Loss/Surge ☐</td></tr> <tr><td>Folio/Program ☐</td></tr> <tr><td>Grain ☐</td></tr> <tr><td>Weld ☐</td></tr> <tr><td>Wrong Stock Pulled ☐</td></tr> <tr><td>Out of Sequence ☐</td></tr> <tr><td>Off-set ☐</td></tr> <tr><td>Mislabeled ☐</td></tr> <tr><td>Fit/Function ☐</td></tr> <tr><td>Misaligned/off center ☐</td></tr> </table>		Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	<table style="width:100%; border: none;"> <tr><td>Positioned Wrong ☐</td></tr> <tr><td>Outside Dimensions ☐</td></tr> <tr><td>Over/Under tolerance ☐</td></tr> <tr><td>Part Incorrect ☐</td></tr> <tr><td>Part Lost/Missing ☐</td></tr> <tr><td>Part Moved ☐</td></tr> <tr><td>Drawing ☐</td></tr> <tr><td>Finish ☐</td></tr> <tr><td>Misread ☐</td></tr> <tr><td>Turning Sequence ☐</td></tr> </table>		Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
Environment ☐	No Re-verification ☐																																																																								
Design ☐	Operator ☐																																																																								
Doc/Data ☐	Offset/Setup ☐																																																																								
Equip/Tooling ☐	Supplier ☐																																																																								
Handling/Pre ☐	Training ☐																																																																								
Material ☐	Use for Testing ☐																																																																								
Internal Transport ☐	Poor Information ☐																																																																								
Tribal Knowledge ☐	Rushing ☐																																																																								
LOA ☐	Product Improvement ☐																																																																								
Substation ☐	Process Improvement ☐																																																																								
Past Expiry Date ☐	Manufacturing Process ☐																																																																								
Misidentified ☐	Past Due ☐																																																																								
Pressure/Forced ☐																																																																									
Bending ☐																																																																									
Centre Not Concentric ☐																																																																									
Cracks ☐																																																																									
Crimp/Kink/Ripple/Wave ☐																																																																									
Cuffs ☐																																																																									
Crushing ☐																																																																									
Heat Treat ☐																																																																									
Wave/Twist in Tube ☐																																																																									
Marks/Chatter ☐																																																																									
Temperature/Cure ☐																																																																									
Set-up ☐																																																																									
BOM/Route ☐																																																																									
Broken/Damage/Defect ☐																																																																									
Inspection Incomplete/Unqualified ☐																																																																									
Contamination ☐																																																																									
Countersink ☐																																																																									
Cut Too Short ☐																																																																									
Instructions Incomplete/Unclear ☐																																																																									
Drill Holes ☐																																																																									
Power Loss/Surge ☐																																																																									
Folio/Program ☐																																																																									
Grain ☐																																																																									
Weld ☐																																																																									
Wrong Stock Pulled ☐																																																																									
Out of Sequence ☐																																																																									
Off-set ☐																																																																									
Mislabeled ☐																																																																									
Fit/Function ☐																																																																									
Misaligned/off center ☐																																																																									
Positioned Wrong ☐																																																																									
Outside Dimensions ☐																																																																									
Over/Under tolerance ☐																																																																									
Part Incorrect ☐																																																																									
Part Lost/Missing ☐																																																																									
Part Moved ☐																																																																									
Drawing ☐																																																																									
Finish ☐																																																																									
Misread ☐																																																																									
Turning Sequence ☐																																																																									
OTHER :																																																																									